

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Cancelled)

2. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein the at least one pesticide is in a solid form, said method further comprising the step of heating at the least one solid pesticide to convert it into liquid form prior to said binding step.

3. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein said hydrophobic polymer has a hydrophobicity of less than about 13 on either the hydrophilic lipophilic balance or solubility parameter scale.

4. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein said forming comprises enveloping said mixture as an inner part within a second hydrophobic polymer.

5-6. (Cancelled)

7. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein said hydrophobic thermoplastic polymer is selected from the group consisting of low density polyethylene, high density polyethylene, ethylene vinyl acetate copolymer, polyester, silicone, neoprene, isoprene polymer and copolymer, and combinations thereof.

8. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein at least one said pesticide has a vapor pressure in the range from 1 nPa to 100 mPa.

9. (Cancelled)

10. (Withdrawn)

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11. (Currently Amended) The method as recited in claim 47 +, wherein said pesticide is water soluble.

12-14. (Withdrawn)

15. (Currently Amended) The method as recited in claim 47 +, wherein said pesticide is selected from the group consisting of biphenyl, dichlorophen, trichloronitromethane, and combinations thereof.

16-29. (Withdrawn)

30. (Currently Amended) The method claimed in claim 47 + wherein the forming step is performed by injection molding.

31. (Currently Amended) The method claimed in claim 47 + wherein the at least one pesticide is a fungicide.

32. (Previously Added) The method claimed in claim 31 wherein the at least one pesticide further includes a pesticide for eliminating wood boring insects.

33. (Currently Amended) The method claimed in claim 47 + wherein the matrix is formed into a pellet.

34. (Currently Amended) The method claimed in claim 47 + wherein the matrix is formed into a sheet.

35. (Currently Amended) The method claimed in claim 47 + wherein the matrix is formed into strips.

36. (Currently Amended) The method claimed in claim 47 + wherein said carrier comprises from about 3 to about 30 weight percent of said matrix and said polymer comprises from about 40 weight percent to about 92 weight percent of said matrix.

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37. (Currently Amended) The method of claim 47 + wherein said hydrophobic polymer has a hydrophobicity of less than about 10 on either the hydrophilic lipophilic balance or solubility parameter scale.

38. (Currently Amended) The method of claim 47 + wherein said hydrophobic polymer has a hydrophobicity of less than about 8 on either the hydrophilic lipophilic balance or solubility parameter scale.

39. (Currently Amended) The method of claim 47 + wherein the carrier is carbon black.

40. (Currently Amended) The method of claim 47 + wherein the carrier is hydroxyapatite.

41. (Previously Amended) A method of making a device for controlled release of at least one pesticide useful for retarding or preventing decay or deterioration of a wooden object by pests, said method comprising the steps of:

(a) binding at least one liquid pesticide to carrier particles to produce pesticide-containing carrier particles; then

(b) combining said pesticide-containing carrier particles with a thermoplastic hydrophobic polymer to produce said device, wherein the amount of pesticide bound to the carrier particles is sufficient so as to achieve a release rate of the pesticide from said device in the range from $0.4 \mu\text{g}/\text{cm}^2/\text{day}$ to $40.4 \mu\text{g}/\text{cm}^2/\text{day}$.

42. (Withdrawn)

43. (Cancelled)

44. (Currently Amended) The method of claim 47 +, wherein the release rate of the pesticide from the controlled release matrix is reduced so as to retard or prevent decay or deterioration of the wooden object by pests for a period of at least about 7 years.

45. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein the polymer is low density polyethylene.

46. (Currently Amended) The method as recited in claim 47 ~~1~~, wherein the at least one pesticide is an insecticide.

47. (Currently Amended) A The method as recited in claim 1, wherein of making a matrix for controlled release of at least one pesticide useful for retarding or preventing decay or deterioration of a wooden object by pests, the method comprising the steps of:

(a) forming a mixture comprising at least one liquid pesticide, a plurality of carrier particles, and a hydrophobic thermoplastic polymer to bind a sufficient amount of the pesticide to the carrier particles to form pesticide-containing carrier particles so as to reduce the release rate of the pesticide from the controlled release matrix to the range from 0.4 $\mu\text{g}/\text{cm}^2/\text{day}$ to 40.4 $\mu\text{g}/\text{cm}^2/\text{day}$, the at least one liquid pesticide is selected from the group consisting of pyrethrin, tefluthrin, permethrin, cypermethrin, fenoxycarb, chlorpyrifos, lambdacyhalothrin, resmethrin, deltamethrin, cyphenothrin, cyfluthrin, and combinations thereof; and

(b) forming the pesticide-containing carrier particles and the polymer into a controlled release matrix having pesticide-containing carrier particles dispersed throughout the polymer.

48. (Currently Amended) The method claimed in claim 47 ~~1~~, wherein the pesticide is lambdacyhalothrin.

49. (Currently Amended) The method claimed in claim 47 ~~1~~, further comprising the step of shaping the mixture of the pesticide-containing carrier particles and the polymer into a multi-laminate sheet.

50. (Previously Added) The method claimed in claim 34, wherein the sheet has a thickness in the range from about 60 mil to about 120 mil.


51. (Currently Amended) The method claimed in claim 47 ~~1~~, wherein said at least one pesticide comprises from about 5 to about 30 weight percent of the matrix.

52. (Cancelled)

53. (Previously Added) The method as recited in claim 41, wherein the polymer is low density polyethylene.

54. (Previously Added) The method as recited in claim 41, wherein the at least one pesticide is an insecticide.

55. (Previously Added) The method as recited in claim 41, wherein the pesticide is selected from the group consisting of pyrethrin, tefluthrin, permethrin, cypermethrin, fenoxycarb, chlorpyrifos, lambdacyhalothrin, resmethrin, deltamethrin, cyphenothrin, cyfluthrin, and combinations thereof.



56. (Previously Added) The method as recited in claim 41, wherein the pesticide is lambdacyhalothrin.

57. (Previously Added) The method as recited in claim 41, wherein the release rate of the pesticide from the matrix is between about $0.7 \mu\text{g}/\text{cm}^2/\text{day}$ to about $20.6 \mu\text{g}/\text{cm}^2/\text{day}$.

58. (Previously Added) The method as recited in claim 41, wherein the device is in the form of a rod, sheet, sleeve, strip, or pellet.

59. (Previously Added) The method claimed in claim 41, further comprising the step of shaping the device into a sheet having at least one additional layer.

60. (Previously Amended) The method claimed in claim 59, wherein the at least one additional layer is selected from the group consisting of polyethylene terephthalate, polyvinylidene chloride, and combinations thereof.

61. (Previously Added) The method claimed in claim 41, further comprising the step of shaping the device into a multi-laminate sheet.

62. (Previously Added) The method claimed in claim 41 further comprising the step of shaping the device into a pellet.

63. (Currently Amended) The method as recited in claim 41, wherein the polymer is selected from the group consisting of low density polyethylene, high density polyethylene, ethylene vinyl acetate copolymer, urethane, polyester, silicone, neoprene, isoprene polymer and copolymer, and combinations thereof.
